



Bison Oil Well Cementing

Customer: NOBLE
Well Name: PAPPENHEIM 01-32

Invoice # 80284
API# 05-123-111
Foreman: AARON
Date 5/7/2011

County: WELD
State: Colorado
Sec: 32
Twp: 7N
Range: 65W

Consultant: RYAN
Rig Name & Number: LEED # 714
Distance To Location: 27 MILES
Units On Location: 3101-4029-3214-4033
Time Requested: 10:30AM
Time Arrived On Location: 9:30AM

Time Left Location:

Plug Job

Well Data

OD Inches	2.375	
String Weight Per ft	4.7	
First Plug Sacks	302	
First Plug Depth	658	
Second Plug Sacks		
Second Plug Depth		
Third Plug Sacks		
Third Plug Depth		
Fourth Plug Sacks		
Fourth Plug Depth		
ID	1.995	
First Plug Displacement	2.5440	bbl
Second Plug Displacement	0.0000	bbl
Thirst Plug Displacement	0.0000	bbl
Fourth Plug Displacement	0.0000	bbl
bbls of Spacer Ahead	5	bbls

bbls of Slurry

First Plug bbls of Slurry	61.8541 bbls
Second Plug bbls of Slurry	0.0000 bbls
Third Plug bbls of Slurry	0.0000 bbls
Fourth Plug bbls of Slurry	#VALUE! bbls

First Plug Cement Data

Cement Name:	G CEMENT
Cement Density (lb/gal) :	15.8
Cement Yield (cuft) :	1.15
Gallons Per Sack:	5.00

Second Plug Cement Data

Cement Name:	Neat g
Cement Density (lb/gal) :	15.8
Cement Yield (cuft) :	1.15
Gallons Per Sack:	5.00

Third Plug Cement Data

Cement Name:	neat g
Cement Density (lb/gal) :	15.8
Cement Yield (cuft) :	1.15
Gallons Per Sack:	5.00

Fourth Plug Cement Data

Cement Name:	Neat g
Cement Density (lb/gal) :	15.8
Cement Yield (cuft) :	1.15
Gallons Per Sack:	5.00

Displacement Fluid lb/gal:	8.3
Fluid Ahead (bbls):	15.0
H2O Wash Up (bbls):	20.0

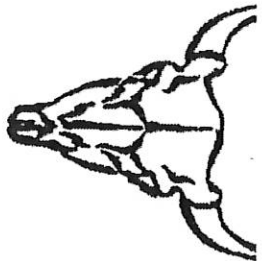
bbls of Mix Water

First Plug bbls Mix Wate	35.9524 bbls
Second Plug bbls Mix Wat	0.0000 bbls
Third Plug bbls Mix Wate	0.0000 bbls
Fourth Plug bbls Mix Wat	#VALUE! bbls

X

Authorized To Proceed

Customers hereby acknowledges and specifically agrees to the terms and condition on this work order, including, without limitation, the provisions on this work order.



Bison Oil Well Cementing
Single Cement Surface Pipe

Customer
Well Name

NOBLE
PAPPENHEIM 01-32

INVOICE #
LOCATION
FOREMAN
Date

80284
WELD
AARON
5/7/2015

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

Safety Meeting	11:20AM	Displace 1			Displace 2			Displace 3			Displace 4		
	10:30AM	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI
MIRU		0			0			0			0		
CIRCULATE	11:55AM	10			10			10			10		
CIRCULATE		20			20			20			20		
CIRCULATE		30			30			30			30		
CIRCULATE		40			40			40			40		
M & P		50			50			50			50		
Time		60			60			60			60		
First Plug	12:01PM	302			70			70			70		
Second Plug		0			80			80			80		
Third Plug		0			90			90			90		
Fourth Plug		0			100			100			100		
		110			110			110			110		
First Plug	36	120			120			120			120		
Second Plug		130			130			130			130		
Third Plug		140			140			140			140		
		150			150			150			150		
Water Temp	49F												

Notes:

X		X
Work Preformed	Title	Date